



## • Application

The H07V series of PVC panel wiring is designed for installation in surface-mounted or embedded conduits, or similar closed systems. They are suitable for fixed protected installations in or on lighting or control gear for voltages up to 1000V AC or up to 750V DC to earth.

## • Performance

Electrical Performance:  
Voltage rating: 450/750V  
Testing voltage: 2500V  
Chemical Performance:  
Resistant to chemicals and oil  
Mechanical Performance:  
Minimum bending radius: 5 x cable diameter  
Terminal Performance:  
Maximum service temperature: 70°C  
Maximum short-circuit temperature: 160°C (max. 5 seconds)  
Minimum service temperature: -40°C  
Lowest ambient temperature for fixed installation: -30°C  
Lowest installation temperature: -5°C  
Fire Performance:  
Flame non-propagation based on IEC 60332-1

## • Construction

Conductor:  
Annealed copper conductors complying with EN 60228  
Class 1 conductor: Solid (H07V-U)  
Class 2 conductor: Stranded (H07V-R)  
Class 5 conductor: Flexible (H07V-K)  
Insulation:  
PVC compound type TI 1  
Color of Insulation:  
Available in blue, black, brown, yellow/green, or other colors

## • Specification

-BS EN 50525-2-31 Standard

## • Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

## • Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



## • National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

## ● Technical Parameters

| Nominal Cross<br>Section Area | No./Dia.of<br>Wires | - | H07V-U                  |            |                   |                                        |                                      |
|-------------------------------|---------------------|---|-------------------------|------------|-------------------|----------------------------------------|--------------------------------------|
|                               |                     |   | Insulation<br>Thickness | Appro.O.D. | Approx.<br>Weight | Max.Resistance of<br>Conductor at 20°C | Min.Insulation<br>Resistance at 70°C |
| mm <sup>2</sup>               | -                   | - | mm                      | mm         | kg                | Ω/km                                   | MΩ/km                                |
| 1.5                           | 1/1.38              | - | 0.7                     | 2.9        | 20.9              | 12.1                                   | 0.011                                |
| 2.5                           | 1/1.78              | - | 0.8                     | 3.5        | 32.8              | 7.41                                   | 0.010                                |
| 4                             | 1/2.25              | - | 0.8                     | 4.0        | 47.9              | 4.61                                   | 0.0087                               |
| 6                             | 1/2.76              | - | 0.8                     | 4.5        | 67.8              | 3.08                                   | 0.0074                               |
| 10                            | 1/3.57              | - | 1.0                     | 5.7        | 112.0             | 1.83                                   | 0.0072                               |

| Nominal Cross<br>Section Area | No./Dia.of<br>Wires | - | H07V-R                  |            |                   |                                        |                                      |
|-------------------------------|---------------------|---|-------------------------|------------|-------------------|----------------------------------------|--------------------------------------|
|                               |                     |   | Insulation<br>Thickness | Appro.O.D. | Approx.<br>Weight | Max.Resistance of<br>Conductor at 20°C | Min.Insulation<br>Resistance at 70°C |
| mm <sup>2</sup>               | -                   | - | mm                      | mm         | kg                | Ω/km                                   | MΩ/km                                |
| 1.5                           | 7/0.52              | - | 0.7                     | 2.96       | 21.5              | 12.1                                   | 0.010                                |
| 2.5                           | 7/0.68              | - | 0.8                     | 3.64       | 34.6              | 7.41                                   | 0.0099                               |
| 4                             | 7/0.85              | - | 0.8                     | 4.15       | 49.5              | 4.61                                   | 0.0082                               |
| 6                             | 7/1.04              | - | 0.8                     | 4.72       | 69.5              | 3.08                                   | 0.0070                               |
| 10                            | 7/1.35              | - | 1.0                     | 6.05       | 116.3             | 1.83                                   | 0.0067                               |
| 16                            | 7/1.70              | - | 1.0                     | 7.1        | 167.1             | 1.15                                   | 0.0056                               |
| 25                            | 7/2.14              | - | 1.2                     | 8.82       | 268.8             | 0.727                                  | 0.0053                               |
| 35                            | 7/2.52              | - | 1.2                     | 9.96       | 364.6             | 0.524                                  | 0.0046                               |
| 50                            | 19/1.78             | - | 1.4                     | 11.7       | 517.7             | 0.387                                  | 0.0046                               |
| 70                            | 19/2.14             | - | 1.4                     | 13.5       | 708.2             | 0.268                                  | 0.0040                               |
| 95                            | 19/2.52             | - | 1.6                     | 15.8       | 959.7             | 0.193                                  | 0.0039                               |
| 120                           | 37/2.03             | - | 1.6                     | 17.41      | 1194.8            | 0.153                                  | 0.0035                               |
| 150                           | 37/2.25             | - | 1.8                     | 19.35      | 1493.4            | 0.124                                  | 0.0035                               |
| 185                           | 37/2.52             | - | 2.0                     | 21.64      | 1843.5            | 0.0991                                 | 0.0035                               |
| 240                           | 61/2.25             | - | 2.2                     | 24.65      | 2383.5            | 0.0754                                 | 0.0034                               |
| 300                           | 61/2.52             | - | 2.4                     | 27.48      | 2971.5            | 0.0601                                 | 0.0033                               |
| 400                           | 61/2.85             | - | 2.6                     | 30.85      | 3927.4            | 0.0470                                 | 0.0031                               |

## ● Technical Parameters

| Nominal Cross<br>Section Area | No./Dia.of<br>Wires | -    | Insulation<br>Thickness | H07V-K     |                   | Max.Resistance of<br>Conductor at 20°C | Min.Insulation<br>Resistance at 70°C |
|-------------------------------|---------------------|------|-------------------------|------------|-------------------|----------------------------------------|--------------------------------------|
|                               |                     |      |                         | Appro.O.D. | Approx.<br>Weight |                                        |                                      |
| mm <sup>2</sup>               | -                   | -    | mm                      | mm         | kg                | Ω/km                                   | MΩ/km                                |
| 1.5                           | 30/0.25             | 1.57 | 0.7                     | 2.97       | 21.2              | 13.3                                   | 0.010                                |
| 2.5                           | 49/0.25             | 2.02 | 0.8                     | 3.62       | 33.4              | 7.98                                   | 0.0095                               |
| 4                             | 56/0.3              | 2.9  | 0.8                     | 4.5        | 50.3              | 4.95                                   | 0.0078                               |
| 6                             | 84/0.3              | 3.6  | 0.8                     | 5.2        | 71.1              | 3.3                                    | 0.0068                               |
| 10                            | 84/0.4              | 4.7  | 1.0                     | 6.7        | 117.7             | 1.91                                   | 0.0065                               |
| 16                            | 126/0.4             | 5.9  | 1.0                     | 7.9        | 177.7             | 1.21                                   | 0.0053                               |
| 25                            | 196/0.4             | 7.3  | 1.2                     | 9.7        | 275               | 0.78                                   | 0.0050                               |
| 35                            | 276/0.4             | 9.2  | 1.2                     | 11.6       | 376.1             | 0.554                                  | 0.0043                               |
| 50                            | 396/0.4             | 11   | 1.4                     | 13.8       | 535               | 0.386                                  | 0.0042                               |
| 70                            | 360/0.5             | 13.1 | 1.4                     | 15.9       | 730               | 0.272                                  | 0.0036                               |
| 95                            | 475/0.5             | 14.4 | 1.6                     | 17.6       | 981.3             | 0.206                                  | 0.0036                               |
| 120                           | 608/0.5             | 16.3 | 1.6                     | 19.5       | 1221.8            | 0.161                                  | 0.0032                               |
| 150                           | 756/0.5             | 18.7 | 1.8                     | 22.3       | 1532.5            | 0.129                                  | 0.0032                               |
| 185                           | 925/0.5             | 20.1 | 2                       | 24.1       | 1883.8            | 0.106                                  | 0.0032                               |
| 240                           | 1221/0.5            | 23.1 | 2.2                     | 27.5       | 2435.9            | 0.0801                                 | 0.0031                               |